

**RACK-AND-PINION LOCK-UP SYSTEM FOR
ATTACHING PRINT CARRIER SHEETS TO PRINT ROLLS**

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ABSTRACT OF THE DISCLOSURE

10 A low profile linear movement lock-up system that uses a rack-and-pinion gear mechanism to open and close a sliding jaw to selectively tighten and loosen a print carrier sheet on a print roll. The rack-and-pinion gear mechanism includes a sliding cam with diagonal cam slots and locking clip with pins that slide within the cam slots to open and close the jaw. The rack-and-pinion lock-up device may be configured for installation on a print roll, either in a new machine or in a retrofit application. The rack-and-pinion lock-up device may also be deployed within a print roll, or as a printing machine including a print roll with a rack-and-pinion lock-up device. An
15 existing printing machine may be retrofitted by replacing its existing lock-up system with the rack-and-pinion lock-up system.